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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/941,313	08/29/2001	Robert J. Burnham	10541-451	6595

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CHICAGO, IL 60610

EXAMINER

GENACK, MATTHEW W

ART UNIT	PAPER NUMBER
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2617

SHORTENED STATUTORY PERIOD OF RESPONSE	MAIL DATE	DELIVERY MODE
3 MONTHS	01/03/2007	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

If NO period for reply is specified above, the maximum statutory period will apply and will expire 6 MONTHS from the mailing date of this communication.

Office Action Summary	Application No. 09/941,313	Applicant(s) BURNHAM ET AL.	
	Examiner Matthew W. Genack	Art Unit 2617	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 13 September 2006.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-10 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) _____ is/are allowed.
- 6) ☒ Claim(s) 1-10 is/are rejected.
- 7) ☐ Claim(s) _____ is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on _____ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some * c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No. _____.
3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- | | |
|--|---|
| 1) <input checked="" type="checkbox"/> Notice of References Cited (PTO-892) | 4) <input type="checkbox"/> Interview Summary (PTO-413) |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948) | Paper No(s)/Mail Date. _____ |
| 3) <input type="checkbox"/> Information Disclosure Statement(s) (PTO/SB/08) | 5) <input type="checkbox"/> Notice of Informal Patent Application |
| Paper No(s)/Mail Date _____ | 6) <input type="checkbox"/> Other: _____ |

DETAILED ACTION

Claim Rejections - 35 USC § 103

1. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

2. Claims 1, 4-6, and 9-10 are rejected under 35 U.S.C. 103(a) as being unpatentable over Kavenik, U.S. Patent No. 4,313,208, in view of Gietema *et. al.*, U.S. Patent No. 6,222,503.

Kavenik discloses an audio entertainment and information system for the cabin of a commercial passenger aircraft (Column 7 Lines 16-20, Column 7 Lines 63-65, Fig. 1). There are several lamps, each connected to the aircraft's AC power source, for the purpose of illuminating the cabin's interior (Column 10 Lines 33-40, Fig. 1). Another component of the entertainment system is the radio frequency audio transmitter (Column 7 Lines 40-42, Column 8 Lines 32-54, Fig. 1). There exists an audio source, which provides audio signals to the transmitter, which is adapted to receive these signals and to transmit them throughout the passenger cabin by feeding an appropriate antenna system (Column 8 Lines 12-19, Column 17 Lines 56-60, Fig. 1, Fig. 10). A wired connection exists between the audio transmitter and the audio source (Column 17 Lines 56-60, Fig. 10). Headsets are provided for the passengers, whereby said headsets are directly connected to equipment with the

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means for receiving the RF signals, controlling the volume, and selecting the audio channel (Column 7 Lines 23-26, Column 9 Lines 42-62, Fig. 3).

Kavenik does not expressly disclose the placement of transmitters in the lamps, said transmitters connectable to the audio source and adaptable to receive information, either analog or digital, from said audio source and to transmit signals containing said information, whereby the transmitter is separate from the light source.

Gietema *et. al.* discloses a system and method for concealing RF antenna systems in lamps, said RF antenna systems being used in cellular telephone networks (Abstract, Column 1 Lines 17-21, Column 4 Lines 28-44, Column 10 Lines 18-34, Figs. 1B and 2). Such antennas will receive audio information from audio sources (e.g., the cellular telephone network components located outside of the lamp) and transmit them through the lens of their respective lamp. The cellular telephone network may be digital, in which case, the audio source (a user's cellular telephone) contains an A/D converter (Column 10 Lines 3-17 and 35-58).

At the time that the invention was made, it would have been obvious to one of ordinary skill in the art to modify the invention of Kavenik by placing RF transmitters in the lamps, said transmitters connected to the audio source and adaptable to receive information, either analog or digital, from said audio source and to transmit signals containing said information.

One would have been motivated to make this modification because the concealment of antennas may be considered to be aesthetically desirable (Gietema *et. al.*: Abstract, Column 1 Lines 17-38, Column 4 Lines 18-24, Column 6 Lines 54-65).

3. Claims 2-3 and 7-8 are rejected under 35 U.S.C. 103(a) as being unpatentable over Kavenik in view of Gietema *et. al.*, further in view of Leeb, U.S. Patent No. 6,426,599.

Neither Kavenik nor Gietema *et. al.* expressly discloses the use of LED transmitters and infrared transmitters.

Leeb discloses a dual-use electronic transceiver for wireless data networks, whereby information is transmitted by modulating the AC input waveform to a lamp, and said information is detected by a receiver adapted to detect the variations, imperceptible to the human eye, of the light emitted from the lamp (Abstract, Column 1 Lines 22-31, Column 3 Lines 35-64, Figs. 1, 7, and 10). Audio information, either analog or digital, may be sent to the transceiver from sources such as tape recorders, microphones, and stereos (Column 1 Lines 31-35, Column 8 Lines 49-56, Fig. 1). The lamp may also emit electromagnetic radiation in the infrared portion of the spectrum, and a light emitting diode may be used as the lamp (Column 3 Line 65 to Column 4 Line 9).

At the time that the invention was made, it would have been obvious to one of ordinary skill in the art to modify the invention of Kavenik as modified by Gietema *et. al.* by providing for the use of lamps containing LED and infrared light sources.

One of ordinary skill in the art would have been motivated to make this modification in order to expand the range of lamps that may be used to conceal RF transmitters.

Conclusion

4. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Matthew W. Genack whose telephone number is 571-272-7541. The examiner can normally be reached on Flex.

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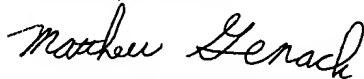
If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Duc Nguyen can be reached on 571-272-7503. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

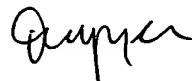
Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

Matthew Genack

Examiner

TC-2600, Division 2617


22 December 2006



DUC M. NGUYEN
SUPERVISORY PATENT EXAMINER
TECHNOLOGY CENTER 2600